

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. PA0255378
APS ID 1149323
Authorization ID 1547261

Applicant, Facility and Project Information

Applicant Name	<u>Paul And Kaylee Haggerty</u>	Facility Name	<u>657 Little Sewickley Creek Rd SRSTP</u>
Applicant Address	<u>657 Little Sewickley Creek Road</u> <u>Sewickley, PA 15143-8311</u>	Facility Address	<u>657 Little Sewickley Creek Road</u> <u>Sewickley, PA 15143-8311</u>
Applicant Contact	<u>Paul & Kaylee Haggerty</u>	Facility Contact	<u>Paul Haggerty</u>
Applicant Phone	<u>(412) 498-1850</u>	Facility Phone	<u>(412) 498-1850</u>
Client ID	<u>367107</u>	Site ID	<u>827833</u>
SIC Code	<u>8800</u>	Municipality	<u>Bell Acres Borough</u>
SIC Description	<u>Private Households</u>	County	<u>Allegheny</u>
Date Application Received	<u>August 15, 2025</u>	WQM Required	<u>No</u>
Date Application Accepted	<u></u>		<u></u>
Project Description	<u>Renewal of SRSTP facility</u>		

Summary of Review

Overview

The permittee has applied to renew PA0255378. The permit was issued on 5/3/2018 and expired on 05/31/2023.

Discharge

The receiving stream is Little Sewickley Creek; it is classified as a Trout Stock Fishery (TSF) and is High Quality.

Facility

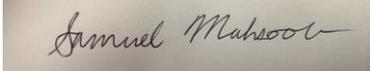
The facility consists of a Norweco Singulair Model 960-500, a Norweco Bio Film Reactor, and a Salcor 3G UV unit. WQM Permit 0218400 was issued on 12/22/2021 and approved an annual average flow of 400 MGD. This facility is not eligible for a PAG-04 General NPDES permit because the facility discharges to a High Quality stream.

Act 14 Notis

Act 14 notifications were provided on 8/18/25.

Compliance

The client has an open violation for submitting their NPDES renewal application late.

Approve	Return	Deny	Signatures	Date
x			 Sam Mahsoob, EIT / Environmental Engineering Trainee	1/29/2026
x			 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineer Manager	2/3/2026

Summary of Review

It should be noted as well that the permittee has not submitted AMR's or DMR's to the Allegheny County Health Department (ACHD) or DEP. The NPDES permit was transferred to the current permittee in 2021. ACHD issued a NOV on June 20, 2024 to the permittee for not submitting monitoring reports. There are no indications in the permit of maintenance or pumping of the septic tank. However, water testing samples for CBOD5, TSS, and Fecal Coliform were included in the application and are well below the limits of the permit.

DEP Operations staff may need to take action against the permittee so that they maintain their system properly, or if they are, that they submit documentation to the ACHD and DEP.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0004</u>
Latitude	<u>40° 34' 16.21"</u>	Longitude	<u>-80° 11' 11.63"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Little Sewickley Creek (HQ-TSF)</u>	Stream Code	<u>86470</u>
NHD Com ID	<u>99682368</u>	RMI	<u>2.4</u>
Drainage Area	<u>7.53</u>	Yield (cfs/mi ²)	<u>0.012</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.094</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>788.05</u>	Slope (ft/ft)	<u>0.009</u>
Watershed No.	<u>20-G</u>	Chapter 93 Class.	<u>HQ-TSF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>CAUSE UNKNOWN</u>		
Source(s) of Impairment	<u>HIGHWAY/ROAD/BRIDGE RUNOFF (NON-CONSTRUCTION RELATED)</u>		
TMDL Status	<u>None</u>	Name	_____
Background/Ambient Data		Data Source	
pH (SU)	_____	_____	
Temperature (°F)	_____	_____	
Hardness (mg/L)	_____	_____	
Other:	_____	_____	
Nearest Downstream Public Water Supply Intake	<u>N/A</u>		
PWS Waters	_____	Flow at Intake (cfs)	_____
PWS RMI	_____	Distance from Outfall (mi)	_____

Changes Since Last Permit Issuance: None

Compliance History

■

Development of Effluent Limitations

Technology-Based Limitations (TBELs)

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SFTF permits based on the requirements of DEP's "Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application" (SOP No. BCW-PMT-003, Version 1.8, Final, November 9, 2012, Revised May 17, 2019).

Parameter	Avg	IMAX	Sample Type	Frequency: SFTFs	Frequency: SRSTPs
Flow (GPD)	Report	XXX	Estimate (SRSTPs) Measured (SFTFs)	1/month	1/year
BOD5 (mg/L)	10	20	Grab	1/month	1/year
TSS (mg/L)	10	20	Grab	1/month	1/year
pH*	6.0 S.U. Inst. Min.	9.0 S.U.	Grab	1/month	1/year
TRC (mg/L)	Report for SRSTPs; Use TRC Spreadsheet to determine WQBELs or 0.02 mg/L for SFTFs		Grab	1/month	1/month
Fecal Coliform (No./100 ml)	200 Geometric Mean (SFTFs) / Average (SRSTPs)		Grab	1/month	1/year

* Use Estimate for SRSTPs and Measured for SFTFs.

** For facilities previously covered under PAG-04 before November 11, 2023 which were required to apply for an individual permit because of a stream re-designation, apply a TRC AML of 0.5 mg/L.

NOTE – For new facilities, review of the NPDES permit application will generally be done concurrently with the WQM permit application. In the event that the application manager determines that the selected technology deviates significantly from the Small Flow Treatment Facilities Manual (362-0300-002) such that it is unclear that the above standards will be consistently achieved, a technical deficiency letter may be issued under the WQM SOP. However, issuance of the draft NPDES permit may proceed since the standards apply regardless of the technology.

NOTE – For SFTFs / SRSTPs with UV systems, it is not necessary to require UV intensity or transmittance monitoring in the permit.

Antidegradation Best Available Combination of Technologies (ABACT)

The following Antidegradation Best Available Combination of Technologies (ABACT) effluent limits, at a minimum, will be established based on the requirements in Chapter 9 and Appendix B of DEP's "Water Quality Antidegradation Implementation Guidance" (Doc. No. 391-0300-002; November 29, 2003).

Parameter	Treatment Process Performance Expectations (mg/L)		
	<2,000 gpd	2,000-50,000 gpd	>50,000 gpd
CBOD ₅ (May 1 – Oct. 31)	10	10	10
CBOD ₅ (Nov. 1 – Apr. 30)	20	20	10
Suspended Solids	20	10	10
NH ₃ -N (May 1 – Oct. 31)	5.0	3.0	1.5
NH ₃ -N (Nov. 1 – Apr. 30)	15.0	9.0	4.5
Effective disinfection	Disinfection should be accomplished using a method that leaves no detectable residual. Disinfection using ultra-violet light or other non-chlorine based systems is encouraged and must be considered.		
Other parameters, as needed	<i>Determined by the size and characteristics of the proposed discharge, may include – NO₂/NO₃-N, Total Phosphorus, Copper, Lead, Zinc</i>		

Comments: A limit of 5.0 mg/L Ammonia-Nitrogen will be imposed in the summer, and a limit of 15.0 mg/L will be imposed in the winter.

The facility is capable for treating ammonia-nitrogen. The Norweco Singulair treatment unit was tested by a third-party laboratory and was found to reduce the concentration of ammonia-nitrogen in the effluent to well below the required effluent limits in the summer and winter. A cover letter and testing data are attached in Attachment B.

Additional Considerations

Anti-Backsliding

Section 402(o) of the Clean Water Act (CWA), enacted in the Water Quality Act of 1987, establishes anti-backsliding rules governing two situations. The first situation occurs when a permittee seeks to revise a Technology-Based effluent limitation based on BPJ to reflect a subsequently promulgated effluent guideline which is less stringent. The second situation addressed by Section 402(o) arises when a permittee seeks relaxation of an effluent limitation which is based upon a State treatment standard of water quality standard.

Previous limits can be used pursuant to EPA's anti-backsliding regulation. Reissued permits. (1) Except as provided in paragraph (l)(2) of this section when a permit is renewed or reissued. Interim effluent limitations, standards or conditions must be at least as stringent as the final effluent limitations, standards, or conditions in the previous permit (unless the circumstances on which the previous permit was based have materially and substantially changed since the time the permit was issued and would constitute cause for permit modification or revocation and reissuance under §122.62). (2) In the case of effluent limitations established on the basis of Section 402(a)(1)(B) of the CWA, a permit may not be renewed, reissued, or modified on the basis of effluent guidelines promulgated under section 304(b) subsequent to the original issuance of such permit, to contain effluent limitations which are less stringent than the comparable effluent limitations in the previous permit.

(40 CFR 122.44 (l)(2) Establishing limitations, standards, and other permit conditions., 40 CFR Ch. I (7-1-21 Edition))

No permits limits have been made less stringent in the renewal draft permit.

Table 6-3 – Self-Monitoring Requirements for SEWAGE Discharges

Plant Design Flow (MGD)	Flow Monitoring	C-BOD ₅ or BOD ₅	Suspended Solids	pH	Fecal Coliform	Chlorine Residual	NH ₃ -N	Phosphorus	DO	Toxics
Single Residence (Individual Permit)	2/year by estimate	2/year*	2/year*	1/month*	2/year*	1/month*	2/year*	2/year*	2/year*	N/A
.0005 to .002	weekly, using average pump rate or weir (a)	1/month*	1/month*	daily*	1/month*	daily*	1/month*	1/month*	daily*	N/A
.002 to .01	weekly, using average pump rate or weir (a)	2/month*	2/month*	daily*	2/month*	daily*	2/month*	2/month*	daily*	N/A
0.01 to 0.1	weekly, using average pump rate or weir (a)	2/month*	2/month*	daily*	2/month*	daily*	2/month*	2/month*	Daily*	1/week*
0.1 to 1.0	meter	1/week**	1/week**	daily*	1/week*	daily*	1/week**	1/week**	daily*	1/week****
1.0 to 5.0	meter	2/week***	2/week***	daily*	2/week*	daily*	2/week***	2/week***	daily*	1/week****
5.0 to 25.0	meter	daily***	daily***	daily*	daily*	1/shift*	daily***	daily***	daily*	1/week****
over 25.0	meter	daily***	daily***	1/shift*	daily*	1/shift*	1/shift***	1/shift***	1/shift*	1/week****

- * Grab sample-these should be most representative of the effluent and are to be taken at a time when the normal daily maximum flow would reach the sampling point.
- ** 8-hour composite sample.
- *** 24-hour composite sample.
- **** Same sample type as for Industrial Process Wastewater (See Table 6-4).

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab
Ammonia-Nitrogen (May 1 – Oct. 31)	XXX	XXX	XXX	5.0	XXX	XXX	1/6 months	Grab
Ammonia-Nitrogen (Nov. 1 – Apr. 30)	XXX	XXX	XXX	15.0	XXX	XXX	1/6 months	Grab

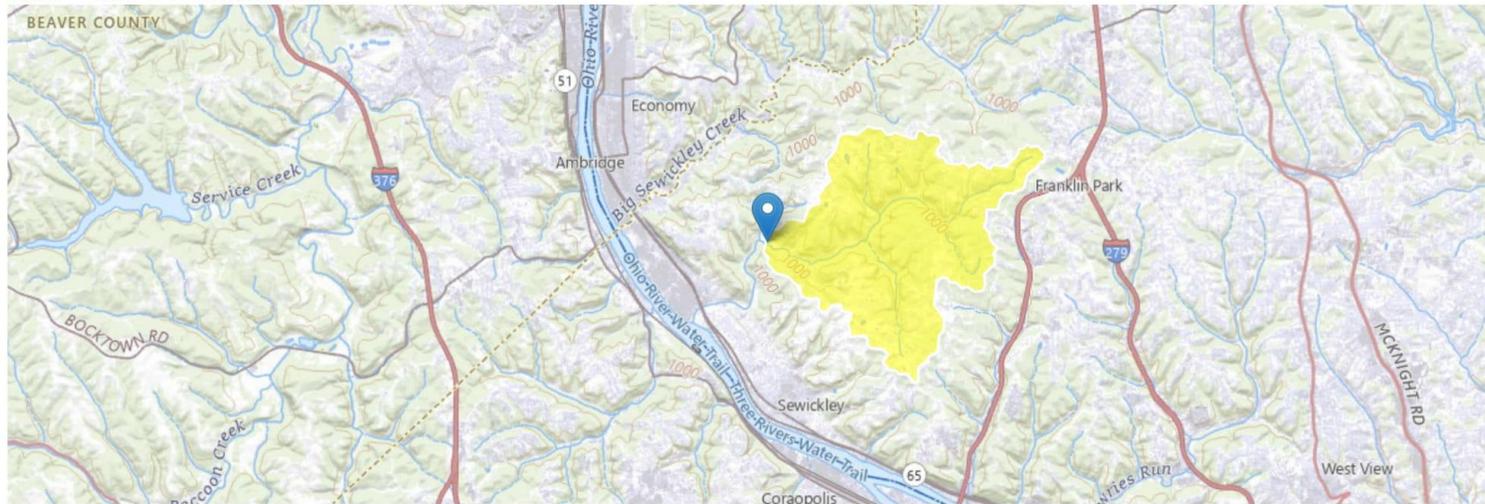
Compliance Sampling Location: Outfall 001

Other Comments: Ammonia limits were added in this permit renewal since the facility discharges to High Quality Stream.

Attachment A – USGS StreamStats Report

StreamStats Report

Region ID: PA
 Workspace ID: PA20251121183927549000
 Clicked Point (Latitude, Longitude): 40.57108, -80.18653
 Time: 2025-11-21 13:39:54 -0500



Collapse All

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	7.53	square miles
ELEV	Mean Basin Elevation	1093	feet

➤ Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	7.53	square miles	2.26	1400
ELEV	Mean Basin Elevation	1093	feet	1050	2580

Low-Flow Statistics Flow Report [Low Flow Region 4]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	0.259	ft^3/s	43	43
30 Day 2 Year Low Flow	0.452	ft^3/s	38	38
7 Day 10 Year Low Flow	0.094	ft^3/s	66	66
30 Day 10 Year Low Flow	0.171	ft^3/s	54	54
90 Day 10 Year Low Flow	0.311	ft^3/s	41	41

Low-Flow Statistics Citations

Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.29.3

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

Attachment B – Proof of Ammonia Treatment



PO Box 323
205 Plank Rd.
Norwalk, OH 44857
Ph 419-668-1895
www.northamericantesting.org

September 19, 2022
Mr. James Meyer
Norweco, Inc.
220 Republic St.
Norwalk, Ohio 44857

RE: Data Verification NWE090221

The following is a verification of the referenced data set collected during the dates of 2/9/2022 through 3/16/2022 and 7/5/2022 through 8/17/2022.

Product model and description: Singlair NPDES with AT-1500 UV disinfection.

Testing and evaluations were conducted at the North American Testing Water and Wastewater Test Facility located in Norwalk, Ohio, USA. The Singlair NPDES system received a daily average flow of 501 GPD using the design loading schedule defined in NSF/ANSI 40 (8.2.2.1) with residential strength raw wastewater meeting the requirements of influent wastewater defined in NSF/ANSI 40 (8.2.1).

Sample collection and analysis was conducted pursuant to Standard Methods for the Examination of Water and Wastewater, 23rd Edition. All analyses were performed by the North American Testing laboratory.

The purpose of the testing was to collect 24 data points during the "winter" period and 24 data points during the "summer" period. The winter test period is defined by the ODH as November 1 through April 30 and these 24 data points were collected from 2/9/2022 – 3/16/2022. The summer test period is defined by the ODH as May 1 through October 31 and these 24 data points were collected from 7/5/2022 – 8/17/2022. All 48 data points were entered into the ODH Excel data spreadsheet Appendix C - Statistical Analysis & Use of Confidence Interval in Analyzing Data (Version 1.2 (Beta) - Release Date 06-14-2019). Over the 48-data point test period, the calculated mean plus two standard deviations (mean + 2s) for the effluent CBOD₅ was 5 mg/L and the effluent TSS mean + 2s was 12 mg/L. The calculated mean + 2s of the effluent ammonia-N for both the winter period and the summer period was 1.7 mg/L and 1.7 mg/L, respectively. The calculated geometric mean + 2s for the effluent E. Coli was 24 MPN/100mL. The minimum effluent Dissolved Oxygen (D.O.) data collected was 6.3 mg/L. According to the provided ODH Appendix C, the Norweco Singlair NPDES system "Meets all 2017 HSTS NPDES permit treatment standards".

North American Testing, LLC. is an independent, third party organization which is accredited by the American National Standards Institute to certify wastewater treatment products under the scope of Sewage Water (13.060.30) and applicable NSF/ANSI Standards. The North American Testing Laboratory conforms to ISO/IEC 17025 for environmental laboratory testing and is accredited (ID #12099) by the New York State Department of Health (NYSDOH) under the National Environmental Laboratory Accreditation Conference Standards (NELAP) for Environmental Analyses Non-Potable Water and specific analytes.

The information reported is certified to be correct and true copies of the data collected during the testing period described herein.

If you have any questions, please contact me at your convenience.

Douglas Steele
Program Manager
North American Testing, LLC

Page 1 of 1



High Standards • Integrity • Technical Expertise



Winter Testing

Data Summary (NAT Site-9, Norweco Singlair NPDES), 500 GPD

Date	BOD ₅ (mg/l)		TSS (mg/L)			pH (SU)		NH ₃ -N (mg/L)		DO (mg/L)		Temperature (°C)				UV Transmittance (%)	E. Coli (MPN/100mL)			Daily Flow (GPD)
	Influent BOD ₅	Effluent CBOD ₅	Influent TSS	Aeration MLSS	Effluent	Influent	Effluent	Influent	Effluent	Aeration	Effluent	Ambient	Influent	Aeration	Effluent	Effluent	Influent	Before UV	Effluent	
2/9/2022	140	4	137		6.9	7.47	7.35	30.9	1.8		7.30	4	9.9		14.0	72.2	5,510,000	120,330	21	508
2/10/2022	160	4	160	1060	6.7	7.67	7.32	32.3	2.1	4.35	7.00	1	10.1	14.8	13.8	74.0	7,308,000	120,330	6	305
2/14/2022	218	2	174		2.8	7.53	7.35	16.1	0.4		8.50	-11	9.7		14.6	74.8	1,406,000	92,080	59	511
2/15/2022	180	2	182	1186	2.0	7.83	7.48	28.2	0.5	4.54	7.16	-12	10.7	13.8	13.3	75.3	3,136,000	6,830	< 1	511
2/16/2022	141	2	159		2.9	7.80	7.24	24.8	1.1		7.67	8	9.3		13.1	76.0	1,540,000	4,680	< 1	521
2/17/2022	114	2	127	1480	2.6	7.89	7.32	26.9	1.0	4.63	7.15	9	9.3	13.9	13.6	75.3	4,718,000	2,180	8	511
2/21/2022	120	2	113		3.8	7.53	7.30	15.2	0.4		7.88	8	9.5		15.2	77.1	2,548,000	7,540	< 1	501
2/22/2022	146	2	161	1575	2.0	7.86	7.29	26.5	0.4	4.04	6.89	9	10.1	16.3	16.0	77.6	2,028,000	19,040	< 1	501
2/23/2022	163	2	160		2.2	7.82	7.34	28.8	0.4		7.32	-2	9.9		16.2	75.5	2,396,000	26,130	< 1	501
2/24/2022	154	2	166	1370	2.6	7.86	7.39	26.4	0.6	6.03	6.89	-4	9.0	16.6	15.8	77.1	2,290,000	17,250	< 1	501
2/25/2022	119	2	126		2.4	7.90	7.42	27.9	0.5		6.30	-4	9.1		15.9	76.2	2,024,000	23,820	< 1	501
2/28/2022	150	2	169		3.1	7.61	7.76	30.1	0.2		8.32	-2	9.7		16.0	76.9	14,540,000	51,720	< 1	501
3/1/2022	148	2	153	1360	2.3	7.72	7.39	32.0	0.6	6.33	8.16	5	9.1	17.4	16.9	75.7	2,374,000	48,840	< 1	501
3/2/2022	136	3	149		2.5	7.71	7.35	40.9	0.4		7.95	1	9.3		17.2	76.2	8,704,000	23,590	< 1	501
3/3/2022	132	2	124	1180	4.5	8.09	7.51	45.9	0.4	5.11	8.17	-4	9.3	15.0	14.2	75.3	2,582,000	13,140	< 1	501
3/4/2022	144	2	140		2.0	7.79	7.40	40.5	0.6		7.90	-3	9.3		15.5	76.7	4,092,000	8,360	< 1	501
3/7/2022	224	2	227		2.0	7.43	7.28	27.1	0.7		8.18	3	10.1		14.5	75.0	2,374,000	3,010	< 1	501
3/8/2022	174	2	171	1260	2.0	7.81	7.27	32.0	0.6	4.28	7.07	0	10.7	14.8	14.4	73.5	22,398,000	6,440	< 1	501
3/9/2022	115	2	121		2.0	7.94	7.15	22.7	0.7		6.55	2	9.6		13.9	75.0	2,758,000	13,760	< 1	501
3/10/2022	93	2	121	1250	2.0	7.96	7.21	29.4	0.6	5.23	6.87	0	10.2	13.9	13.8	73.8	2,548,000	24,810	< 1	501
3/11/2022	91	2	90		4.2	7.86	7.40	27.4	1.2		8.51	0	9.9		13.5	75.5	2,356,000	26,130	< 1	501
3/14/2022	202	2	193		2.2	7.54	7.31	22.2	0.5		7.27	6	10.2		13.0	77.1	3,586,000	61,310	< 1	501
3/15/2022	242	2	211	870	2.7	7.95	7.19	30.9	0.6	4.13	6.71	6	10.7	13.7	13.3	71.6	3,214,000	98,040	1	501
3/16/2022	172	4	166		6.8	7.86	7.20	49.1	1.3		6.85	9	10.6		13.5	74.1	2,708,000	43,520	< 1	501

Summer Testing

Data Summary (NAT Site-9, Norweco Singlair NPDES), 500 GPD

Date	BOD ₅ (mg/l)		TSS (mg/L)			pH (SU)		NH ₃ -N (mg/L)		DO (mg/L)		Temperature (°C)				UV Transmittance (%)	E. Coli (MPN/100mL)			Daily Flow (GPD)
	Influent BOD ₅	Effluent CBOD ₅	Influent TSS	Aeration MLSS	Effluent	Influent	Effluent	Influent	Effluent	Aeration	Effluent	Ambient	Influent	Aeration	Effluent	Effluent	Influent	Before UV	Effluent	
7/5/2022	201	4	194	710	9.2	7.30	7.38	24.1	0.4	5.86	7.55	22	23.6	24.4	24.9	71.5	19,608,000	6,440	< 1	503
7/6/2022	210	3	201		6.2	7.41	7.37	24.1	0.4		8.75	22	23.6		24.9	71.5	12,262,000	1,850	< 1	503
7/7/2022	149	2	163	750	5.0	7.32	7.44	30.7	0.6	4.84	8.16	24	23.0	24.3	25.0	73.6	31,062,000	1,460	< 1	503
7/8/2022	255	2	275		5.8	7.58	7.36	26.6	0.5		7.05	23	22.7		25.0	75.3	3,720,000	7,330	< 1	503
7/11/2022	183	3	227		7.0	7.32	7.33	20.4	0.4		8.17	26	22.5		24.0	76.6	39,726,000	77,010	1	503
7/12/2022	248	3	223	907	8.2	7.34	7.34	34.2	0.4	1.70	7.94	26	22.8	24.1	24.4	76.4	18,416,000	120,330	8	503
7/13/2022	251	2	223		7.0	7.35	7.53	35.9	0.4		8.05	23	22.9		25.2	75.9	9,768,000	3,448	< 1	503
7/14/2022	202	4	192	810	8.0	7.45	7.28	31.7	0.7	4.79	7.79	22	22.9	24.5	25.5	72.4	10,344,000	23,820	1	503
7/18/2022	158	4	179		6.6	7.35	7.43	16.40	0.4		7.82	22	22.9		24.7	74.8	19,608,000	12,740	1	503
7/19/2022	95	3	150	720	4.6	7.48	7.45	18.90	0.4	5.89	7.54	29	23.1	24.7	24.9	74.5	15,402,000	860	< 1	503
7/20/2022	104	3	141		4.0	7.55	7.50	26.90	0.5		8.19	29	23.9		25.4	75.5	8,320,000	3,930	< 1	503
7/21/2022	144	3	150	1008	6.8	7.57	7.57	27.80	0.6	5.70	9.05	26	23.1	25.1	25.5	76.2	8,212,000	6,440	< 1	503
7/25/2022	215	2	170		3.8	7.38	7.66	27.3	0.4		8.33	23	23.3		25.9	73.5	9,768,000	23,590	< 1	503
7/26/2022	238	4	166	800	9.0	7.05	7.40	22.3	1.9	4.99	9.01	21	23.4	25.4	25.7	73.0	16,328,000	30,760	< 1	503
7/27/2022	163	4	160		10.0	7.45	7.59	27.5	0.4		7.99	22	23.6		25.9	76.6	31,062,000	5,860	1	503
7/28/2022	200	5	173	900	13.2	7.28	7.44	36.8	0.4	2.98	8.00	24	23.6	25.5	26.2	76.4	14,540,000	13,140	1	503
8/1/2022	247	4	201		13.0	7.25	7.74	28.7	0.9		8.19	28	23.6		26.3	72.1	22,398,000	111,990	< 1	503
8/2/2022	194	5	217	770	11.5	7.38	7.50	36.0	1.4	3.34	8.05	24	23.6	25.7	26.4	73.0	25,994,000	141,360	1	503
8/3/2022	175	5	210		12.0	7.36	7.40	42.6	1.7		7.23	25	24.0		26.2	71.5	18,416,000	120,330	1	503
8/4/2022	225	3	213	525	7.7	7.37	7.65	41.0	1.9	3.35	8.05	24	24.3	26.2	26.8	71.5			1	503
8/8/2022	174	3	207		7.2	7.27	7.66	26.5	0.5		9.83	24	24.6		27.3	71.6			25	503
8/9/2022	211	3	208	576	6.3	7.46	7.56	36.4	0.7	3.54	8.85	21	24.3	26.7	27.1	56.9			2	503
8/15/2022	232	3	202		6.0	7.28	7.49	30.1	1.3		7.88	23	23.6		25.9		5,100	> 5,100	48	327
8/16/2022	199	4	200	745	8.8	7.44	7.34	39.0	1.3	3.84	8.82	21	23.7	25.1	25.9	71.8	15,402,000	20,140	50	503
8/17/2022	234	2	233		6.3	7.39	7.57	39.4	1.2		7.92	22	23.3		25.9	69.8	8,212,000	41,060	56	503
count	49	49	49	22	49	49	49	49	49	22	49	49	49	22	49	48	46	46	49	49
Average	175	3	175	991	5.5	7.57	7.41	29.9	0.8	4.52	7.81	13	16.8	20.5	20.2	74.2				496
Min	91	2	90	525	2.0	7.05	7.15	15.2	0.2	1.70	6.30	-12	9.0	13.7	13.0	56.9	5,100	860	1	305
Max	255	5	275	1575	13.2	8.09	7.76	49.1	2.1	6.33	9.83	29	24.6	26.7	27.3	77.6	39,726,000	141,360	59	521
Geomean																	5,804,892	17,093	2	